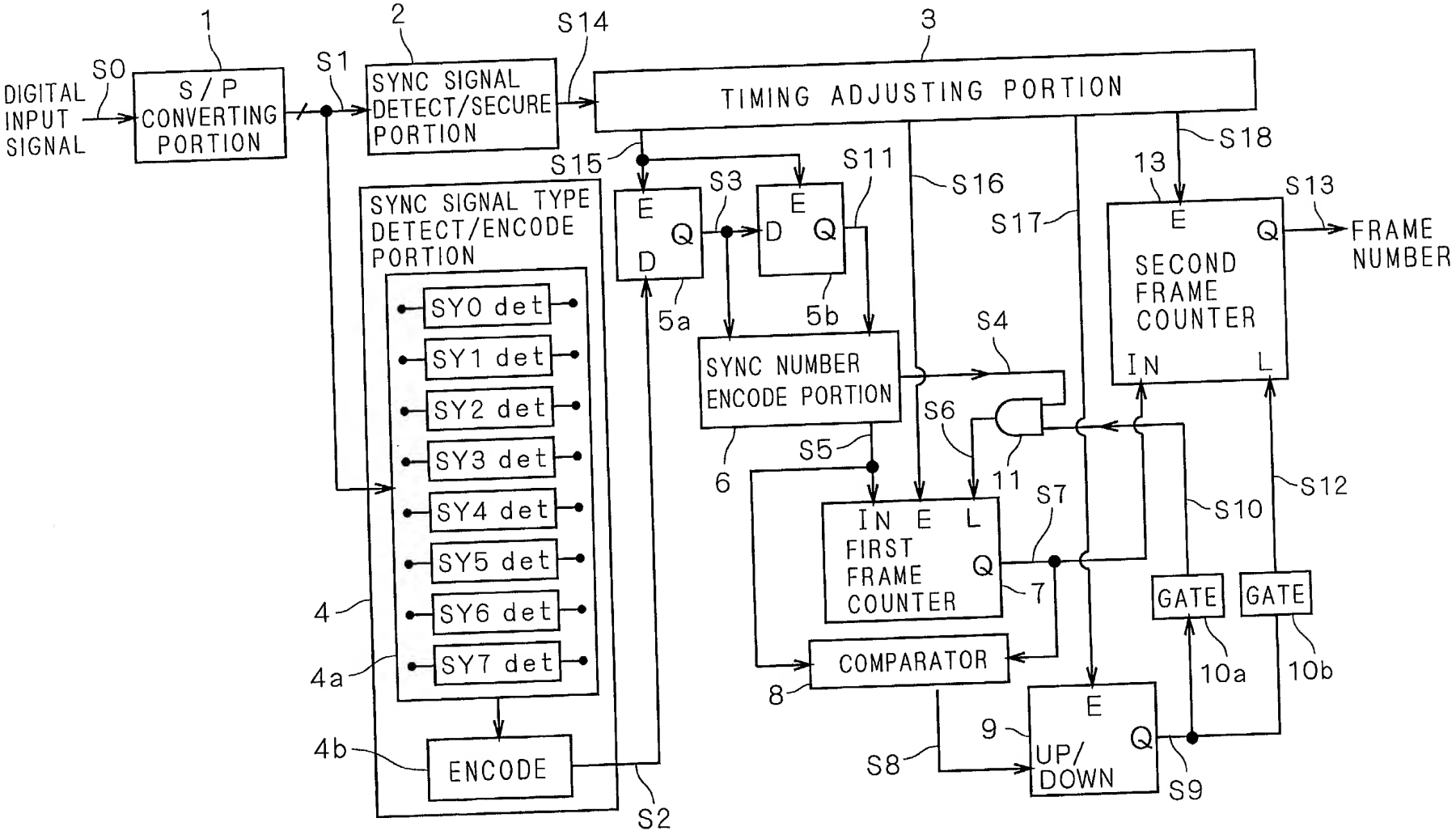
DIGITAL INPUT SIGNAL
S0
1
S/P CONVERTING PORTION
S1
2
SYNC SIGNAL DETECT/SECURE PORTION
S14
3
TIMING ADJUSTING PORTION
S15
S3
S11
S16
S17
S18
13
S13
FRAME NUMBER
SECOND FRAME COUNTER
IN
L
E
Q
D
5a
5b
SYNC SIGNAL TYPE DETECT/ENCODE PORTION
SY0 det
SY1 det
SY2 det
SY3 det
SY4 det
SY5 det
SY6 det
SY7 det
4
4a
4b
ENCODE
S2
SYNC NUMBER ENCODE PORTION
S4
6
S5
S6
11
IN E L
FIRST FRAME COUNTER
Q
7
S7
S10
S12
GATE
10a
10b
COMPARATOR
8
9
UP/ DOWN
S8
S9

FIG. 1

FIG. 2

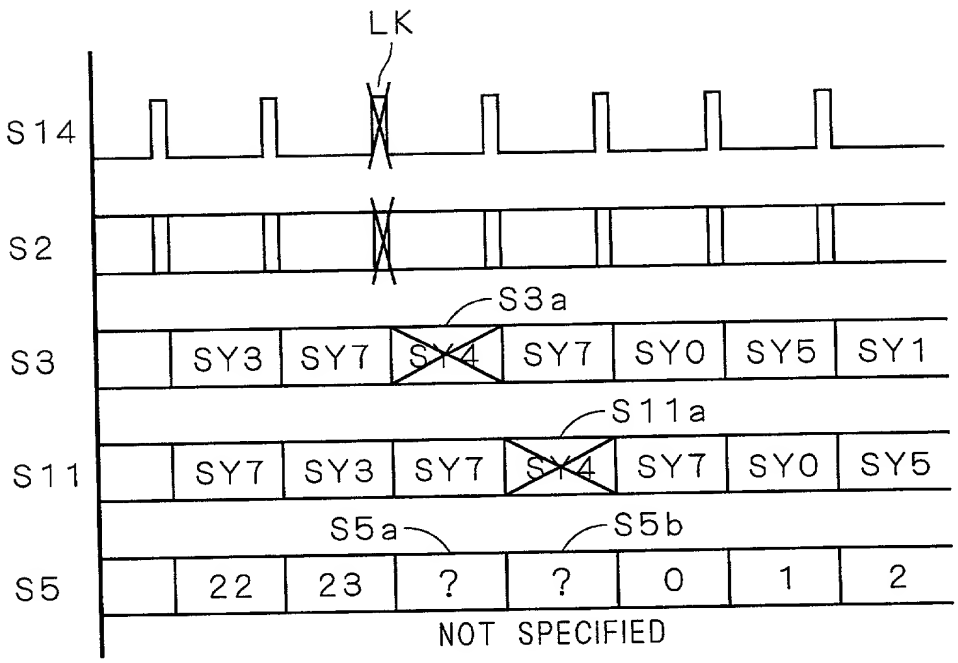
LK
S14
S2
S3a
S3
SY3
SY7
SY4
SY7
SY0
SY5
SY1
S11a
S11
SY7
SY3
SY7
SY4
SY7
SY0
SY5
S5a
S5b
S5
22
23
?
?
0
1
2
NOT SPECIFIED

FIG. 3

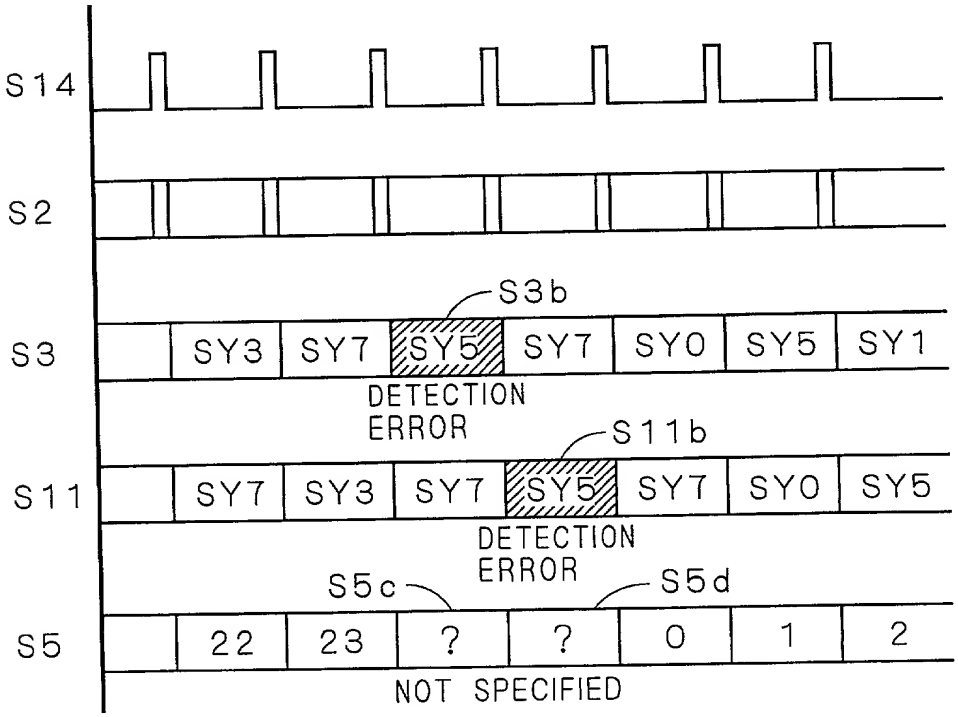
S14
S2
S3b
S3
SY3
SY7
SY5
SY7
SY0
SY5
SY1
DETECTION ERROR
S11b
S11
SY7
SY3
SY7
SY5
SY7
SY0
SY5
DETECTION ERROR
S5c
S5d
S5
22
23
?
?
0
1
2
NOT SPECIFIED

FIG. 4

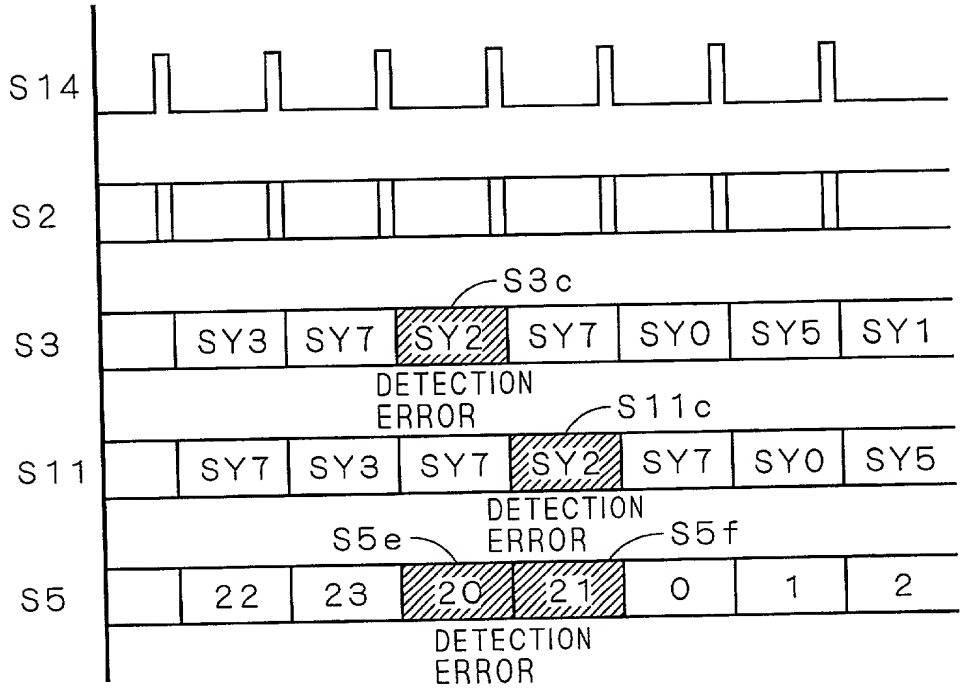

FIG. 5

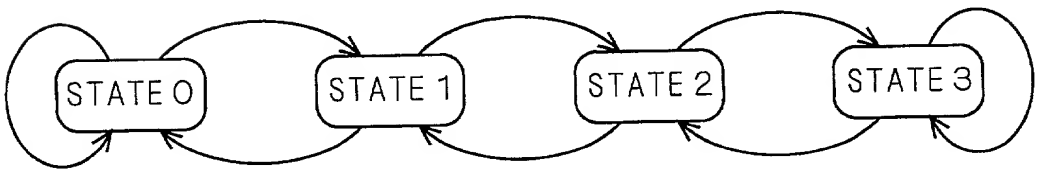

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FIG. 6

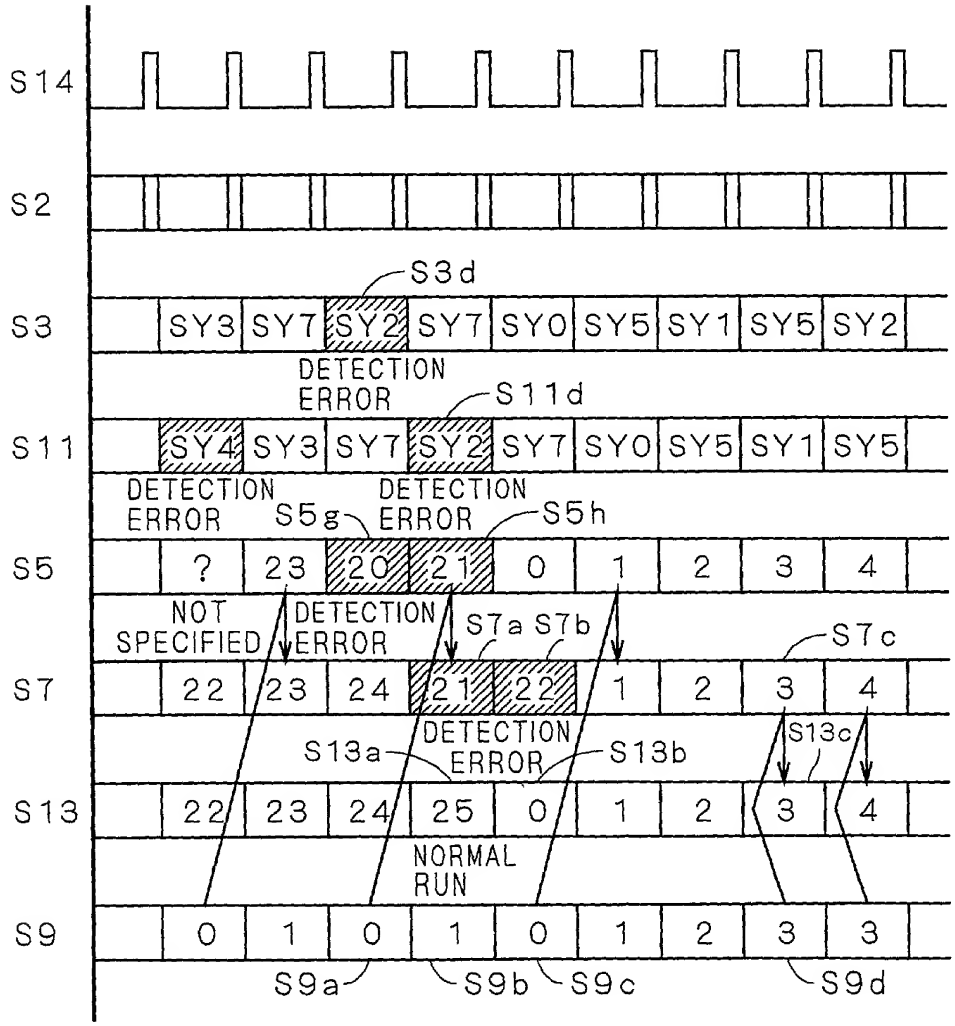
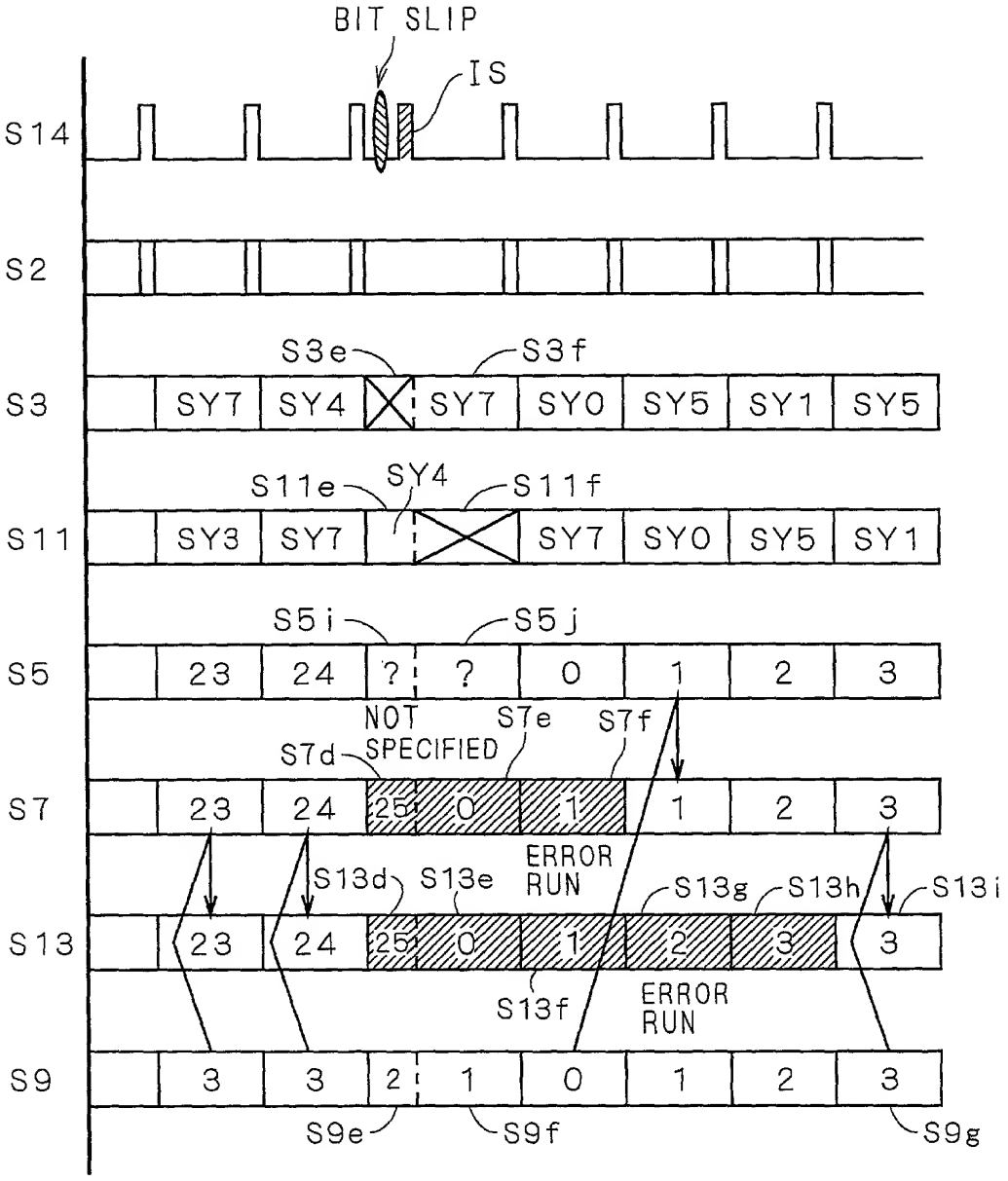

S14
S2
S3
S3d
SY3 SY7 SY2 SY7 SY0 SY5 SY1 SY5 SY2
DETECTION ERROR
S11
S11d
SY4 SY3 SY7 SY2 SY7 SY0 SY5 SY1 SY5
DETECTION ERROR
DETECTION ERROR
S5g
S5h
S5
? 23 20 21 0 1 2 3 4
NOT SPECIFIED
DETECTION ERROR
S7a S7b
S7c
S7
22 23 24 21 22 1 2 3 4
DETECTION ERROR
S13a
S13b
S13c
S13
22 23 24 25 0 1 2 3 4
NORMAL RUN
S9
0 1 0 1 0 1 2 3 3
S9a
S9b
S9c
S9d

FIG. 7


BIT SLIP
IS
S14
S2
S3e
S3f
S3
SY7
SY4
SY7
SY0
SY5
SY1
SY5
S11e
SY4
S11f
S11
SY3
SY7
SY7
SY0
SY5
SY1
S5i
S5j
S5
23
24
?
?
0
1
2
3
NOT SPECIFIED
S7d
S7e
S7f
S7
23
24
25
0
1
1
2
3
ERROR RUN
S13d
S13e
S13g
S13h
S13i
S13
23
24
25
0
1
2
3
3
S13f
ERROR RUN
S9
3
3
2
1
0
1
2
3
S9e
S9f
S9g

TOHZHO 2500H860

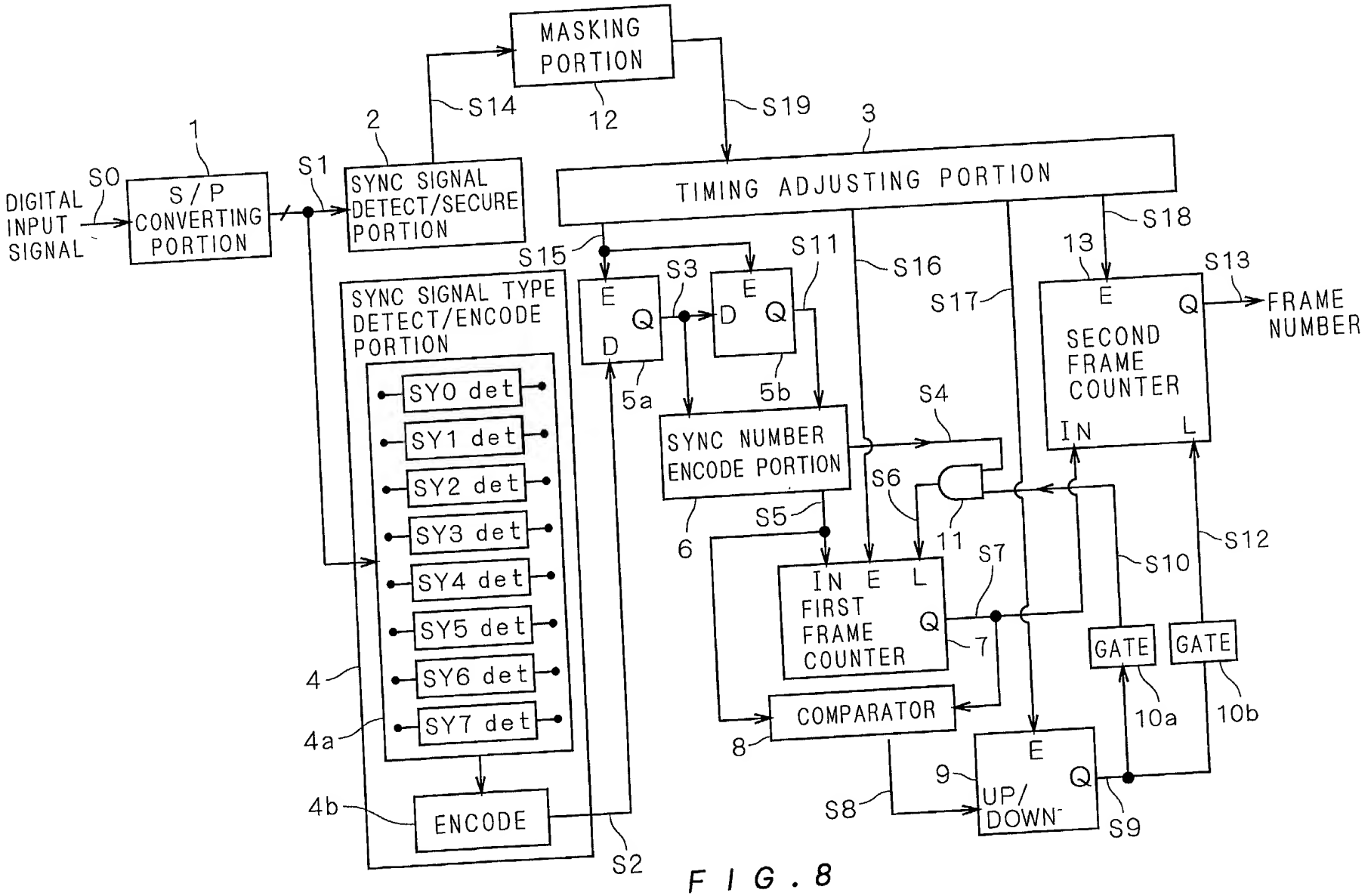


FIG. 8

FIG. 9

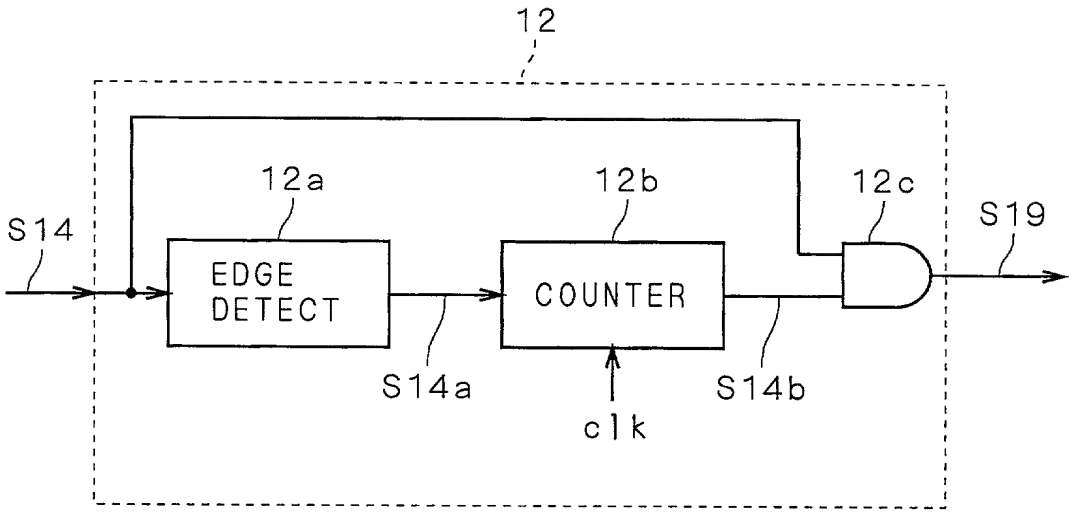


FIG. 10

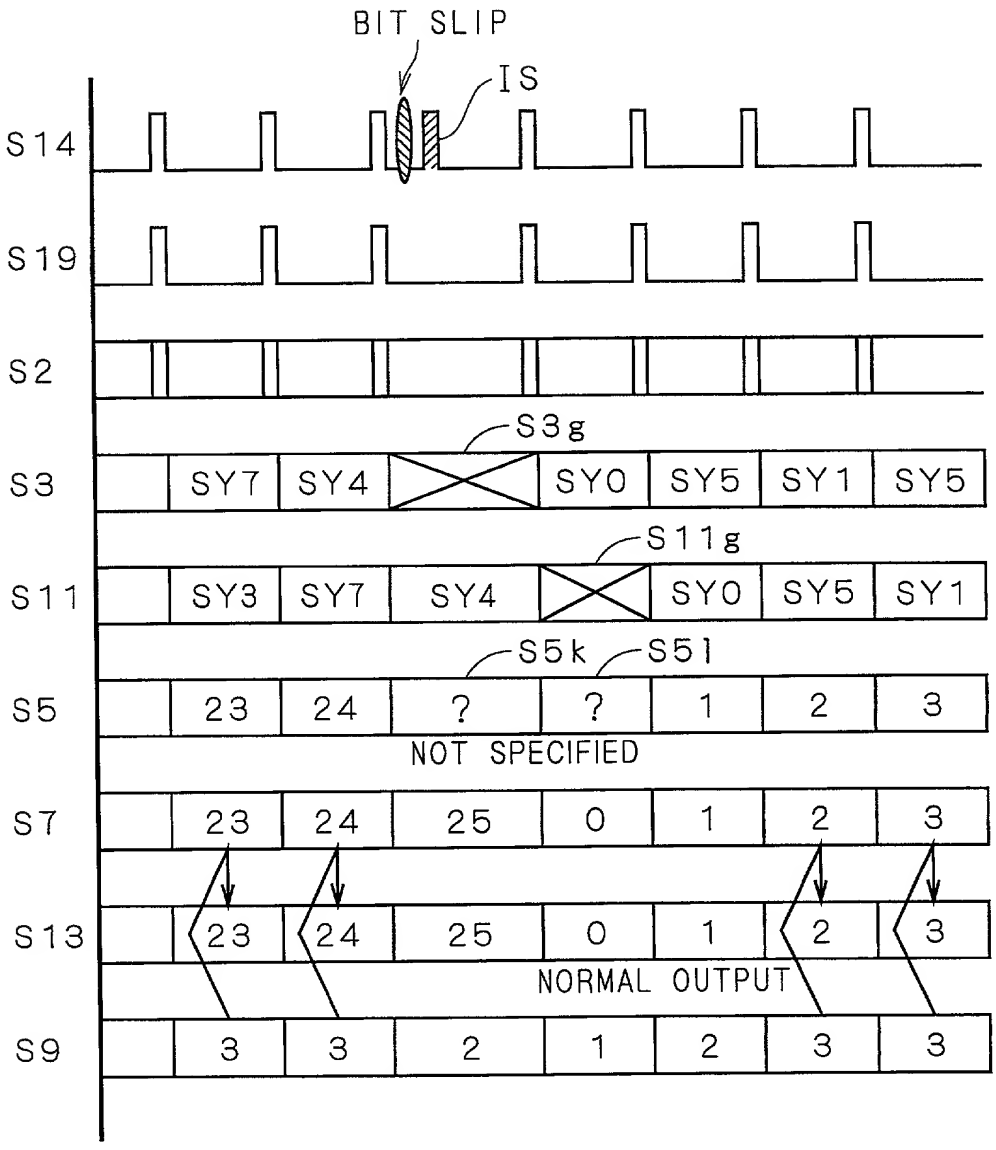
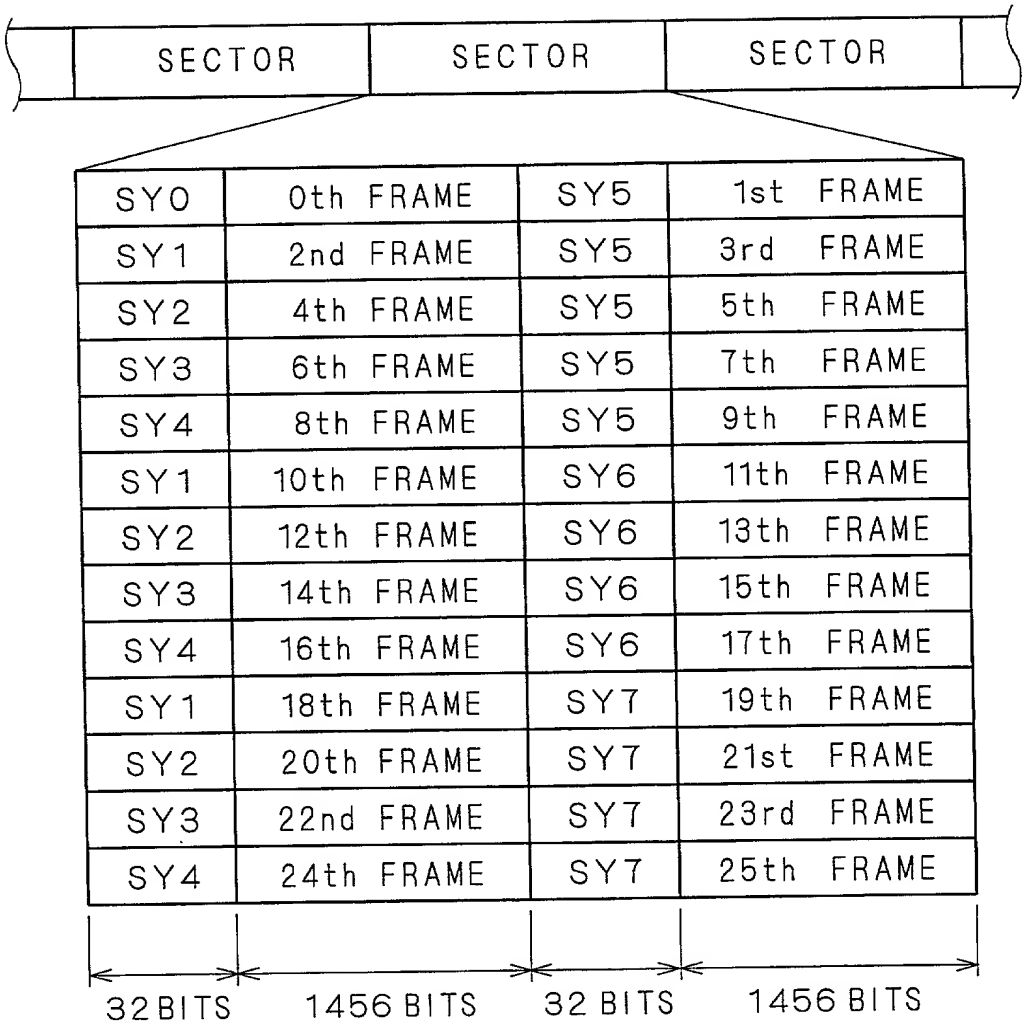

BIT SLIP
IS
S14
S19
S2
S3g
S3
SY7
SY4
SY0
SY5
SY1
SY5
S11g
S11
SY3
SY7
SY4
SY0
SY5
SY1
S5k
S5l
S5
23
24
?
?
1
2
3
NOT SPECIFIED
S7
23
24
25
0
1
2
3
S13
23
24
25
0
1
2
3
NORMAL OUTPUT
S9
3
3
2
1
2
3
3

FIG. 11



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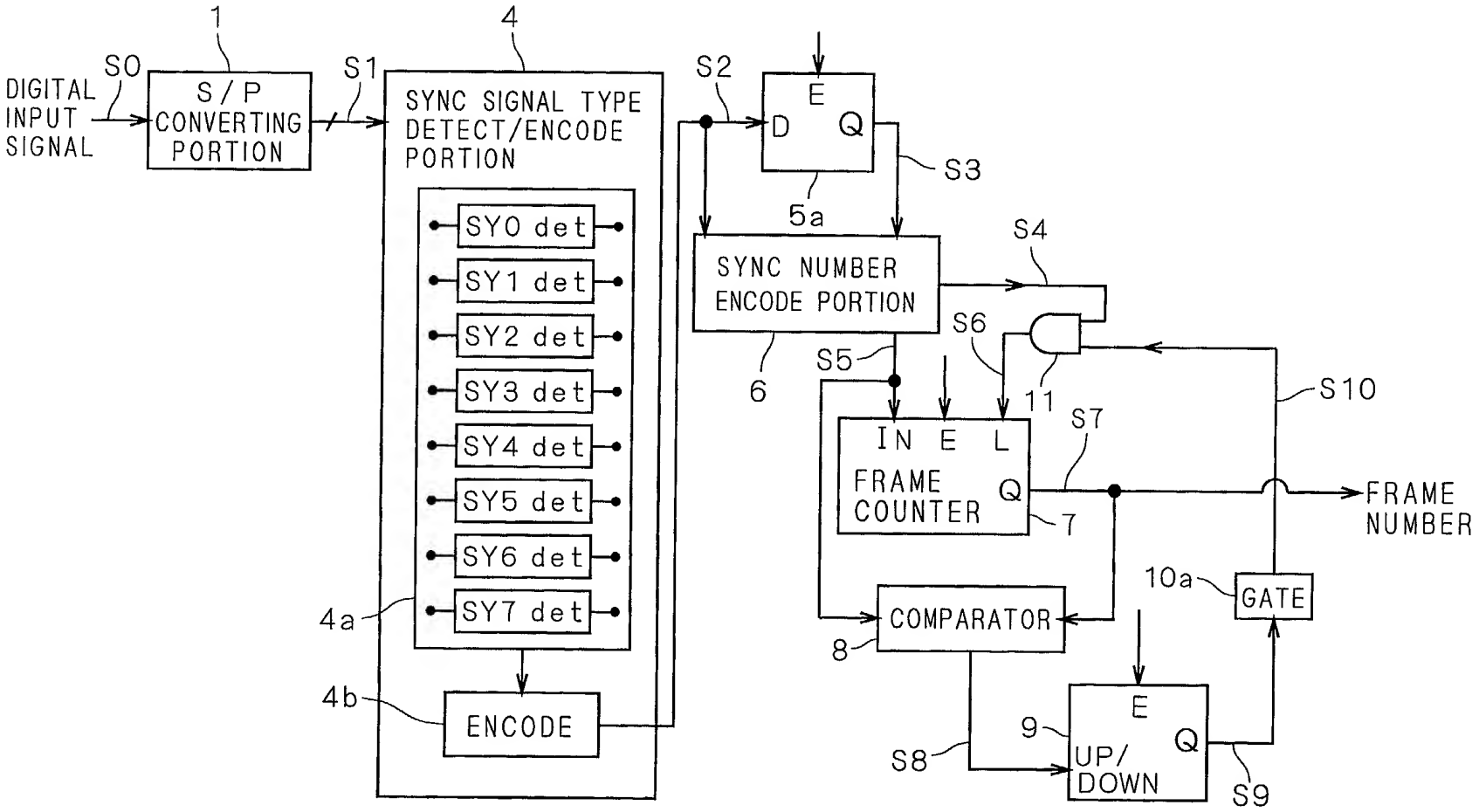
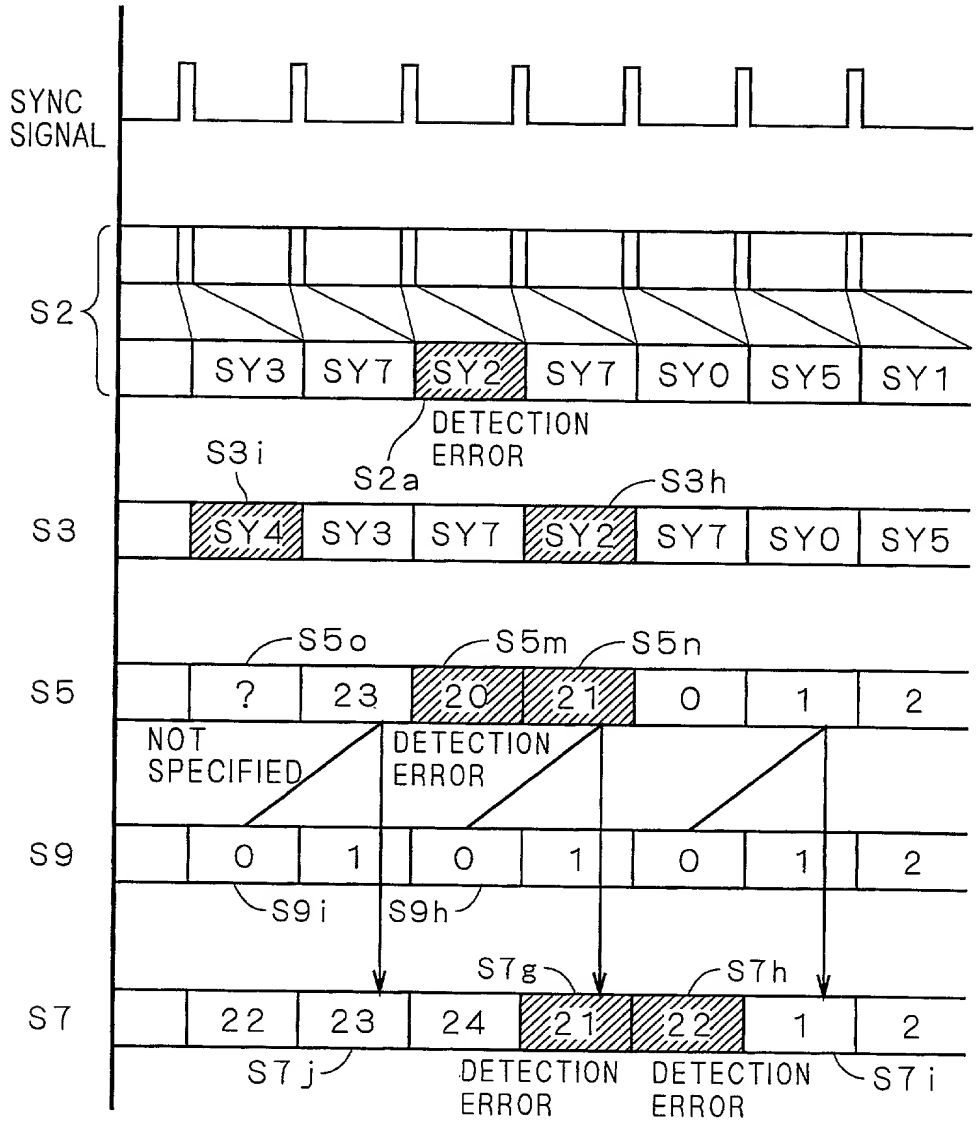

1
4
S0
S1
S2
DIGITAL INPUT SIGNAL
S/P CONVERTING PORTION
SYNC SIGNAL TYPE DETECT/ENCODE PORTION
E
D
Q
S3
5a
SY0 det
SY1 det
SY2 det
SY3 det
SY4 det
SY5 det
SY6 det
SY7 det
4a
4b
ENCODE
SYNC NUMBER ENCODE PORTION
S4
S5
S6
6
11
IN E L
FRAME COUNTER
Q
7
S7
S10
FRAME NUMBER
10a
GATE
COMPARATOR
8
9
S8
UP/ DOWN
S9

FIG. 12

FIG. 13


SYNC SIGNAL
S2
SY3
SY7
SY2
SY7
SY0
SY5
SY1
DETECTION ERROR
S3i
S2a
S3h
S3
SY4
SY3
SY7
SY2
SY7
SY0
SY5
S5o
S5m
S5n
S5
?
23
20
21
0
1
2
NOT SPECIFIED
DETECTION ERROR
S9
0
1
0
1
0
1
2
S9i
S9h
S7g
S7h
S7
22
23
24
21
22
1
2
S7j
DETECTION ERROR
DETECTION ERROR
S7i